



5687

MEDIUM-MU TWIN TRIODE

9-PIN MINIATURE TYPE

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GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Heater arrangement	Series	Parallel	
Voltage	12.6	6.3	ac or dc volts
Current	0.45	0.9	 amp

Direct Interelectrode Capacitances (Approx.):⁰

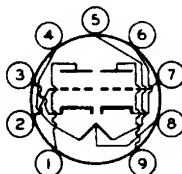
Grid to plate (Each unit)	4	μf
Grid to cathode and heater (Each unit) . . .	4	μf
Plate to cathode and heater:		
Unit No.1	0.6	μf
Unit No.2	0.5	μf
Heater to cathode (Each unit)	7	μf
Grid to grid.	0.025	μf
Plate to plate.	0.75	μf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Voltage	120	180	250	volts
Grid Voltage.	-2	-7	-12.5	volts
Amplification Factor.	18	17	16	
Plate Resistance (Approx.)	1560	2000	3000	ohms
Transconductance.	11500	8500	5400	μmhos
Plate Current	36	23	12	ma
Grid Voltage (Approx.) for plate $\mu\text{a} = 100$	-9	-14	-19	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip).	1-9/16" $\pm$ 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See General Section
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW.	.9H

Pin 1-Plate of
Unit No.2Pin 2-Grid of
Unit No.2Pin 3-Cathode of
Unit No.2Pins 4 & 8-Heater of
Unit No.2Pins 5 & 8-Heater of
Unit No.1Pin 6-Cathode of
Unit No.1Pin 7-Grid of
Unit No.1Pin 8-Heater
Mid-TapPin 9-Plate of
Unit No.1⁰: See next page.

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AMPLIFIER — Class A₁*Values are for Each Unit***Maximum Ratings, Absolute Values:**

PLATE VOLTAGE.	330 max.	volts
GRID CURRENT	6.6 max.	ma
PLATE DISSIPATION:		
Either plate	4.2 max.	watts
Both plates (Both units operating) . . .	7.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	100 max.	volts
Heater positive with respect to cathode.	100 max.	volts
BULB TEMPERATURE (At hottest point		
on bulb surface)	220 max.	°C

Maximum Circuit Values:

Grid-Circuit Resistance.	1 max.	megohm
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° Without external shield.